

PC-0040 US

<110> Preeti Lal  
Jennifer Hillman

<120> DIAGNOSTIC MARKER FOR CANCERS

<130> PC-0040 US

<140> To Be Assigned  
<141> Herewith

<160> 14  
<170> PERL Program

<210> 1  
<211> 340  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1573677CD1

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20 25 30  
Thr Met Leu Phe Leu Gly Ser Leu Gly Ala Trp Gly Thr Thr Ser  
35 40 45  
Ile Ser Thr Gly Ser Ile Phe Ser Leu Lys Thr Leu Arg Ser Gln  
50 55 60  
His Gly Gly Gln Val Gly Leu Lys Val Ser Arg Pro Arg Ala Gln  
65 70 75  
Pro Leu Pro Ala Gln Pro Pro Ala Leu Ala Gln Pro Gln Tyr Gln  
80 85 90  
Ser Pro Gln Gln Pro Pro Gln Thr Arg Trp Val Ala Pro Arg Asn  
95 100 105  
Arg Asn Ala Ala Phe Gly Gln Ser Gly Gly Ala Gly Ser Asp Ser  
110 115 120  
Asn Ser Pro Gly Asn Val Gln Pro Asn Ser Ala Pro Ser Val Glu  
125 130 135  
Ser His Pro Val Leu Glu Lys Leu Lys Ala Ala His Ser Tyr Asn  
140 145 150  
Pro Lys Glu Phe Glu Trp Asn Leu Lys Ser Gly Arg Val Phe Ile  
155 160 165  
Ile Lys Ser Tyr Ser Glu Asp Asp Ile His Arg Ser Ile Lys Tyr  
170 175 180  
Ser Ile Trp Cys Ser Thr Glu His Gly Asn Lys Arg Leu Asp Ser  
185 190 195  
Ala Phe Arg Cys Met Ser Ser Lys Gly Pro Val Tyr Leu Leu Phe  
200 205 210  
Ser Val Asn Gly Ser Gly His Phe Cys Gly Val Ala Glu Met Lys  
215 220 225  
Ser Pro Val Asp Tyr Gly Thr Ser Ala Gly Val Trp Ser Gln Asp

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	230		235		240
Lys Trp Lys Gly	Lys Phe Asp Val Gln	Trp Ile Phe Val Lys	Asp		
	245		250		255
Val Pro Asn Asn	Gln Leu Arg His Ile	Arg Leu Glu Asn Asn	Asp		
	260		265		270
Asn Lys Pro Val	Thr Asn Ser Arg Asp	Thr Gln Glu Val Pro	Leu		
	275		280		285
Glu Lys Ala Lys	Gln Val Leu Lys Ile	Ile Ser Ser Tyr Lys	His		
	290		295		300
Thr Thr Ser Ile	Phe Asp Asp Phe Ala	His Tyr Glu Lys Arg	Gln		
	305		310		315
Arg Arg Arg Arg	Trp Cys Ala Arg Asn	Gly Arg Val Glu Thr	Asn		
	320		325		330
Asn Glu Gly Glu	Pro Val Ser Tyr Met	Phe			
	335		340		

<210> 2

<211> 2028

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1573677CB1

<400> 2

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tgggggaacaa	catctatcag	cacaggttca	attttttccc	tgaaaaccct	gcgtttctcag	360
catggggggac	aagtgggtct	caagggtcagc	agaccagag	ctcagcctct	cccagcacag	420
ccccagctt	tggctcaacc	gcagtatcag	agccctcagc	agccacccca	gacccgctgg	480
gttgccccac	gcaacagaaa	cgcggcggtt	gggcagagcg	gaggggctgg	cagcgatagc	540
aactctcctg	gaaacgtcca	gcctaattct	gccccagcg	tcgaatccca	ccccgtcctt	600
gaaaaactga	aggctgctca	cagctacaac	ccgaaagagt	ttgagtggaa	tctgaaaagc	660
gggcgtgtgt	tcatcatcaa	gagctactct	gaggacgaca	tccaccgctc	cattaagtac	720
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gtggccgaga	tgaagtcccc	cgtggactac	ggcaccagtg	ccggggctctg	gtctcaggac	900
aagtgggaagg	ggaagtttga	tgtccagtgg	attttttgta	aggatgtacc	caataaccag	960
ctccggcaca	tcaggctgga	gaataacgac	aacaaaccgg	tcacaaactc	ccggggacacc	1020
caggaggtgc	ccttagaaaa	agccaagcaa	gtgctgaaaa	ttatcagttc	ctacaagcac	1080
acaacctcca	tcttcgacga	ctttgctcac	tacgagaagc	gccagaggag	gaggaggtgg	1140
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cccggtgcggg	ggttgagtgt	tgcattctttg	cctttcttgt	cgttgatttt	tgcccagatg	1320
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gagtattttt	ttttgtcagc	ttatcaatca	gactgatcta	atgtgaaatg	taagtatcct	1440
taaaaacaaa	gcatctattt	tggcagaaat	tgtgtttctta	aattcagtc	tttgatattc	1500
tgtgagactt	catattttct	atccctttat	tgcttttttag	caaacataag	aaaccatgag	1560
tcattttgtc	atttagagta	ttctgataaa	atctcttgaa	aatactgaaa	tcaaaagggt	1620
aatgattttt	tgttcattct	gatttgtcat	tttattatct	gttatcggtc	taaagtgcta	1680
atttacctat	ttgatttttc	tgctagacag	ataactttta	atttttcaaa	tttggcagac	1740
actttttttt	tttttttgaa	aatcttttct	tccagatctg	ttgcccactg	aacagccacc	1800

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```
cgccccccac tgccttggtg tccgattggg ctggatgggtg ttggggcatg atgtgtggag 1860
gaactggaag gtgctttagg tctgggttcag ggctggggcat tctttgttgt ttgcacatct 1920
ttttaaatTTT tacacctttt cttagaatt ctaatgccgt cttagtttt tataccaata 1980
atgctgagct ttaagtgtag gatctggtag tacagacagt gtgatgga 2028
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<210> 3  
<211> 403  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 228382R6

<220>  
<221> unsure  
<222> 20  
<223> a, t, c, g, or other

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gcttggtcag ctccagtgtg tgcctccgtg cggggggttg gtgttgcatc cttgcctttc 120
ttgtcgttga tttttgcccga gatggatctg catttatttg tactttttct atgtattata 180
atcctgtaga agtcactaat aaaggagtat ttttttttgt cagcttatca atcagactga 240
tctaagtgtg aatgtaagta tccttaaaaa caaagcatct attttggcag aaattgtgtt 300
cttaaattca gtcatttgat attctgtgag acttcattat tctcatccct tattgctttt 360
tagcaaacat aagaaaccat gagtcatttt gtcattttaga gat 403
```

<210> 4  
<211> 396  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1854560F6

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<400> 4
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catccaccgc tccattaagt actccatctg gtgtagcaca gagcacggca acaagcgcct 120
ggacagcgcc ttccgctgca tgagcagcaa ggggcccgtc tacctgctct tcagcgtcaa 180
tgggagtggg cattttttgtg ggggtggccga gatgaagtcc cccgtggact acggcaccag 240
tgccgggggc tgggtctcagg acaagtggaa ggggaagtgt gatgtccagt ggatttttgt 300
taaggatgta cccaataacc agctccggca catcaggctg gagaataacg acaacaaacc 360
ggtccacaaa ctcccgggac acccaggagg tgccct 396
```

<210> 5  
<211> 622  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 040360R1

<220>

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<221> unsure

<222> 430, 447, 465, 469, 492, 513, 539, 546, 556, 573, 586

<223> a, t, c, g, or other

<400> 5

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agtcatttga tattctgtga gacttcatat ttctcatccc ttatttgctt tttagcaaac 60
ataagaaacc atgagtcatt ttgtcattta gagtattctg ataaaatctc ttgaaaatac 120
tgaaatcaaa aggttaaatga ttttttgttc attctgattt gtcattttat tatctgttat 180
cggctctaaag tgctaattta cccatttgat ttttctgcta gacagataac ttttaatttt 240
tcaaatttgg cagacacttt tttttttttt tgaaaatctt tccttccaga tctgttgccc 300
actgaacagc caccggtccc tcaactgtcct ggtgtccgat tgggctggat ggtgttgggg 360
catgatgtgt ggaggaacgg aaggtgcttt aggtctgggt cagggtcggg catctttgtt 420
gtttgcacan tttttaaaatt tacaacnttt cttaaggaat ctaangccng cttaagggtt 480
taaaccata angctgagcc ttaagggtag ggnctggag gacagacaag tggatgggng 540
aaggcngctt ggtggnaaat caacgggggg gcnaaatttt tcccntgga tgggaaaaac 600
caaaccaaac ctttttttgg ag 622
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<210> 6

<211> 902

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 065573R1

<220>

<221> unsure

<222> 378, 435, 442, 474, 487, 503, 522, 528, 535, 539, 547, 550, 583, 594, 602, 609, 629, 640, 655, 658, 665, 669, 672, 684, 690, 696, 699, 712, 717, 726, 729, 733, 751, 759-760, 788, 797, 818, 820-821, 841, 851, 858, 860, 863, 865, 871, 873, 883, 891

<223> a, t, c, g, or other

<400> 6

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agaccagag ctcagcctct cccagcacag cccccagctt tggctcaacc gcagtatcag 120
agccctcagc agccacccca gaccgctgg gttgccccac gcaacagaaa cgcggcgttt 180
gggcagagcg gaggggctgg cagcgatagc aactctcctg gaaacgtcca gcctaattct 240
gccccagcg tcgaatccca ccccgctcct gaaaaactga aggctgctca cagctacaac 300
ccgaaagagt ttgagtggaa tctgaaaagc gggcgtgtgt tcatcatcaa gagctactct 360
gaggacgaca tccaccgntc cattaagtag tccatctggg tagcacaga gcacggcaac 420
aagcggctgg gacancggct tncgctgcat gagcagcaaa ggggcccgtc ttanctgctt 480
tttaggngtc aaatggggag ttnggcattt tttttggggg tngggccnag gatgnaagnt 540
tccccngtn gggacttaag gggaaaccaa ttgcccgggg gtnccttgggt cttnaaggga 600
cnaaaattng gaagggggga aaggttttna atgtcccaan tggggatttt tttgnttnaa 660
agggntttnt anccccaaat taanccaagn ttccnnggna aaaaaataag gnttttnggg 720
gaattnaang ggnaaaaaaa aaaccgggtt naaaaaaann ttcccggggg caaaccagc 780
ggggggtncc ccctttngga aaaaggccaa aggaaaaant ntttaaaatt ttttaagggtc 840
ntaaaaagga naaaaaanct tcnanttttt ngngggggtt ttnttaaatt nggggggggg 900
cc 902
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<210> 7

<211> 546

<212> DNA

<213> Homo sapiens

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<220>  
<221> misc\_feature  
<223> Incyte ID No: 1456688F1

<220>  
<221> unsure  
<222> 311, 425, 457, 513, 518, 522, 524, 527, 533, 535-538, 541, 544  
<223> a, t, c, g, or other

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tggtagtaca gacagtgtga tggatgatgc tgctgggtgt aaatttcata gtgtgtgtct 120  
aatttttttt cctgttgaat gggtaaaaac aaaacaaaac tttttttaga agatgaattt 180  
gctgtcatgt tttgtggaat gagggaccgt tgagctcact accacctgga gtttgagttg 240  
aagcatgaaa atggtgccca tgccctgacgc tccagcgcct ggatctgcac gtgcccttgt 300  
agaggatcct naccgtccta gagagcagac gctttctgaa aactacttgc tccaaaagac 360  
cctctgagtt aacgtttcag ctgtatcatt agacttgtat ttagagcgtg tcacttcctc 420  
tgaanctgtt actgcctgaa tggagtcctg gacgacnatt gggttttttc ctctaggaga 480  
atacaaacct taataaacia tactatttag canaaaaana angnggnagt ganannnngt 540  
nganaa 546

<210> 8  
<211> 634  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1573677X13

<220>  
<221> unsure  
<222> 500, 566, 569  
<223> a, t, c, g, or other

<400> 8  
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acaatgactt tgagccctac cttactggac agtcaaataca gagtaacagt taccctcaa 120  
tgagcgaccc ctacctgtcc agctattacc cgccgtccat tggatttcct tactccctca 180  
atgaggtccc gtggtctact gcaggggacc ctccgattcc atacctcacc acctacggac 240  
agctcagtaa cggagaccat cattttatgc acgatgctgt ttttgggcag cctggggggc 300  
tggggaacia catctatcag cacaggttca attttttccc tgaaaacct gcgttctcag 360  
catggggggac aagtgggtct caaggtcagc agaccagag ctccgcgtat gggagcagct 420  
acacctaccc cccgagctcc ctgggtggca cgggtggttga tgggcagcca gggctttcac 480  
agcgacaccc tcagcaaggn cccccgggat gaacagcctg gagcagggca tgggtggcct 540  
gaagattggg gacgtcagct gcctcngcng tcaagacgtg ggctctgtct cagcagcgtg 600  
gcactgactg gtgtcttttc tggcaacggt ggga 634

<210> 9  
<211> 598  
<212> DNA  
<213> Canis familiaris

<220>  
<221> misc\_feature  
<223> Incyte ID No: 702758636H1 (Dog)

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<400> 9

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agtttgattg gaatcttaaa agtggacgcg tgttcataat aaaaagctac tctgaggacg 180
acatccaccg ctccattaag tactccatct ggtgcagcac agagcacggc aacaagcgcc 240
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acgggagtg gcacttctgc ggggtggctg agatgaagtc acccgtggac tacggcacia 360
gcgctggcgt ctggtctcag gacaagtgga aaggcaagtt tgacgtgaag tggatttttg 420
tgaaggacgt gcccaataac cagctccggc acatcaggct ggagaataat gacaacaagc 480
cggtcaccaa ctcccgcgac acccaggagg tgccttaga aaaagcaaag caagtgtctga 540
aaattatcgc ttcctacaag cacacaacct ccatctttga cgacttttct cactatga 598
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<210> 10

<211> 1792

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<223> Incyte ID No: 034237\_Mm.1(Mouse)

<400> 10

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caaggggcct gtttatctcc tcttcagtgt caatgggagt ggacatttct gtgggggtggc 180
agagatgaag tcccctgtgg actacggcac cagcgcctgg gtctgggtctc aggacaagtg 240
gaagggaaag tttgatgtga agtggatttt tgtgaaggat gtgccaaca accagctgcg 300
gcacatcaga ctggagaata acgacaaca acctgtcaca aactcccgtg atacacagga 360
ggtgccctta gaaaaagcaa aacaagtgt gaagattatc gcttcctata agcacacaac 420
ctctatcttt gacgactttt ctcatatga gaagcgccag gaggaagagg aggtggtgcg 480
taaggaaaga cagaatcgaa acaacaata agaacaagcc agtttggttt tgggttaatgg 540
ttgactttga aaacagagtt ttaaagctgt atgcttggtg ctgtctccga gtcagctcca 600
gtgtcgtcct cgtgcggggg tgattgttgc atctttatct ttgtagttca tttttgccag 660
atggatctgc attcatttgt atttttctat gtattataat attgtagaac tctaataata 720
aggagtattt tgtttgtcag cttatcagtc agattgacct aatgcaaat ataatattc 780
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gttttagcatg aaagtgggtg tcatgcccga cgccctcgca tactgaatct gcacgcgcc 1560
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agaccctctg agttaacatt taagctgtat tatttagact tgtattttaga acgtgtcact 1680
tcctcgagct gttactgcct gtacggagtc gtggacaaca tcggatacct gtcctctagg 1740
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<210> 11

<211> 641

<212> DNA

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<213> Rattus norvegicus

<220>

<221> misc\_feature

<223> Incyte ID No: 702482342T1(Rat)

<400> 11

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cagcaccaag catacagctt taaaactctg ttttcaaagt caaccattaa ccaaaaacaa 120
accggcttgt ccttattgtt tgtttcgatt ctgcctttcc ttgcgcacta cctcctctgc 180
ctcctggcgc ttctcataat gagaaaagtc gtcaaagatg gaggttgtgt gcttatagga 240
ggcaataatc ttcagcactt gttttgcttt ttctaagggc acctcctgcg tgtcacggga 300
gtttgtgaca ggcttgttgt cgttattctc cagtctgatg tgccgcagtt gattattggg 360
cacatccttg acaaaaatcc acttcacatc aaacttcccc ttccacttgt cctgagacca 420
gaccccagca ctggtgccgt agtccacagg ggacttcatt tctgccaccc cacagaaatg 480
tccactccca ttgacactga agagcagata aacaggcccc ttgctgctca tggagcggaa 540
ggcgccatcc cagggcgttt gttgccatgt tccagtacta caccagatgg agtacttgat 600
ggagcgggtgg atgtcgtcct cagaatagct cttgatgatg a 641
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<210> 12

<211> 559

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: g12711367

<400> 12

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Asn Lys Val Gln Asn Gly Ser Leu His Gln Lys Asp Thr Val His
          20          25          30
Asp Asn Asp Phe Glu Pro Tyr Leu Thr Gly Gln Ser Asn Gln Ser
          35          40          45
Asn Ser Tyr Pro Ser Met Ser Asp Pro Tyr Leu Ser Ser Tyr Tyr
          50          55          60
Pro Pro Ser Ile Gly Phe Pro Tyr Ser Leu Asn Glu Ala Pro Trp
          65          70          75
Ser Thr Ala Gly Asp Pro Pro Ile Pro Tyr Leu Thr Thr Tyr Gly
          80          85          90
Gln Leu Ser Asn Gly Asp His His Phe Met His Asp Ala Val Phe
          95          100          105
Gly Gln Pro Gly Gly Leu Gly Asn Asn Ile Tyr Gln His Arg Phe
          110          115          120
Asn Phe Phe Pro Glu Asn Pro Ala Phe Ser Ala Trp Gly Thr Ser
          125          130          135
Gly Ser Gln Gly Gln Gln Thr Gln Ser Ser Ala Tyr Gly Ser Ser
          140          145          150
Tyr Thr Tyr Pro Pro Ser Ser Leu Gly Gly Thr Val Val Asp Gly
          155          160          165
Gln Pro Gly Phe His Ser Asp Thr Leu Ser Lys Ala Pro Gly Met
          170          175          180
Asn Ser Leu Glu Gln Gly Met Val Gly Leu Lys Ile Gly Asp Val
          185          190          195
Ser Ser Ser Ala Val Lys Thr Val Gly Ser Val Val Ser Ser Val
```

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Ala	Leu	Thr	Gly	Val	Leu	Ser	Gly	Asn	Gly	Gly	Thr	Asn	Val	Asn
				200					205					210
Met	Pro	Val	Ser	Lys	Pro	Thr	Ser	Trp	Ala	Ala	Ile	Ala	Ser	Lys
				215					220					225
Pro	Ala	Lys	Pro	Gln	Pro	Lys	Met	Lys	Thr	Lys	Ser	Gly	Pro	Val
				230					235					240
Met	Gly	Gly	Gly	Leu	Pro	Pro	Pro	Pro	Ile	Lys	His	Asn	Met	Asp
				245					250					255
Ile	Gly	Thr	Trp	Asp	Asn	Lys	Gly	Pro	Val	Pro	Lys	Ala	Pro	Val
				260					265					270
Pro	Gln	Gln	Ala	Pro	Ser	Pro	Gln	Ala	Ala	Pro	Gln	Pro	Gln	Gln
				275					280					285
Val	Ala	Gln	Pro	Leu	Pro	Ala	Gln	Pro	Pro	Ala	Leu	Ala	Gln	Pro
				290					295					300
Gln	Tyr	Gln	Ser	Pro	Gln	Gln	Pro	Pro	Gln	Thr	Arg	Trp	Val	Ala
				305					310					315
Pro	Arg	Asn	Arg	Asn	Ala	Ala	Phe	Gly	Gln	Ser	Gly	Gly	Ala	Gly
				320					325					330
Ser	Asp	Ser	Asn	Ser	Pro	Gly	Asn	Val	Gln	Pro	Asn	Ser	Ala	Pro
				335					340					345
Ser	Val	Glu	Ser	His	Pro	Val	Leu	Glu	Lys	Leu	Lys	Ala	Ala	His
				350					355					360
Ser	Tyr	Asn	Pro	Lys	Glu	Phe	Glu	Trp	Asn	Leu	Lys	Ser	Gly	Arg
				365					370					375
Val	Phe	Ile	Ile	Lys	Ser	Tyr	Ser	Glu	Asp	Asp	Ile	His	Arg	Ser
				380					385					390
Ile	Lys	Tyr	Ser	Ile	Trp	Cys	Ser	Thr	Glu	His	Gly	Asn	Lys	Arg
				395					400					405
Leu	Asp	Ser	Ala	Phe	Arg	Cys	Met	Ser	Ser	Lys	Gly	Pro	Val	Tyr
				410					415					420
Leu	Leu	Phe	Ser	Val	Asn	Gly	Ser	Gly	His	Phe	Cys	Gly	Val	Ala
				425					430					435
Glu	Met	Lys	Ser	Pro	Val	Asp	Tyr	Gly	Thr	Ser	Ala	Gly	Val	Trp
				440					445					450
Ser	Gln	Asp	Lys	Trp	Lys	Gly	Lys	Phe	Asp	Val	Gln	Trp	Ile	Phe
				455					460					465
Val	Lys	Asp	Val	Pro	Asn	Asn	Gln	Leu	Arg	His	Ile	Arg	Leu	Glu
				470					475					480
Asn	Asn	Asp	Asn	Lys	Pro	Val	Thr	Asn	Ser	Arg	Asp	Thr	Gln	Glu
				485					490					495
Val	Pro	Leu	Glu	Lys	Ala	Lys	Gln	Val	Leu	Lys	Ile	Ile	Ser	Ser
				500					505					510
Tyr	Lys	His	Thr	Thr	Ser	Ile	Phe	Asp	Asp	Phe	Ala	His	Tyr	Glu
				515					520					525
Lys	Arg	Gln	Glu	Glu	Glu	Glu	Val	Val	Arg	Lys	Glu	Arg	Gln	Ser
				530					535					540
Arg	Asn	Lys	Gln						545					555

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<211> 570  
<212> PRT  
<213> Homo sapiens

<220>



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<221> misc\_feature

<223> Incyte ID No: g6449083

<400> 13

Met	Ser	Ala	Ser	Ser	Leu	Leu	Glu	Gln	Arg	Pro	Lys	Gly	Gln	Gly
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Asn	Lys	Val	Gln	Asn	Gly	Ser	Val	His	Gln	Lys	Asp	Gly	Leu	Asn
				20					25					30
Asp	Asp	Asp	Phe	Glu	Pro	Tyr	Leu	Ser	Pro	Gln	Ala	Arg	Pro	Asn
				35					40					45
Asn	Ala	Tyr	Thr	Ala	Met	Ser	Asp	Ser	Tyr	Leu	Pro	Ser	Tyr	Tyr
				50					55					60
Ser	Pro	Ser	Ile	Gly	Phe	Ser	Tyr	Ser	Leu	Gly	Glu	Ala	Ala	Trp
				65					70					75
Ser	Thr	Gly	Gly	Asp	Thr	Ala	Met	Pro	Tyr	Leu	Thr	Ser	Tyr	Gly
				80					85					90
Gln	Leu	Ser	Asn	Gly	Glu	Pro	His	Phe	Leu	Pro	Asp	Ala	Met	Phe
				95					100					105
Gly	Gln	Pro	Gly	Ala	Leu	Gly	Ser	Thr	Pro	Phe	Leu	Gly	Gln	His
				110					115					120
Gly	Phe	Asn	Phe	Phe	Pro	Ser	Gly	Ile	Asp	Phe	Ser	Ala	Trp	Gly
				125					130					135
Asn	Asn	Ser	Ser	Gln	Gly	Gln	Ser	Thr	Gln	Ser	Ser	Gly	Tyr	Ser
				140					145					150
Ser	Asn	Tyr	Ala	Tyr	Ala	Pro	Ser	Ser	Leu	Gly	Gly	Ala	Met	Ile
				155					160					165
Asp	Gly	Gln	Ser	Ala	Phe	Ala	Asn	Glu	Thr	Leu	Asn	Lys	Ala	Pro
				170					175					180
Gly	Met	Asn	Thr	Ile	Asp	Gln	Gly	Met	Ala	Ala	Leu	Lys	Leu	Gly
				185					190					195
Ser	Thr	Glu	Val	Ala	Ser	Asn	Val	Pro	Lys	Val	Val	Gly	Ser	Ala
				200					205					210
Val	Gly	Ser	Gly	Ser	Ile	Thr	Ser	Asn	Ile	Val	Ala	Ser	Asn	Ser
				215					220					225
Leu	Pro	Pro	Ala	Thr	Ile	Ala	Pro	Pro	Lys	Pro	Ala	Ser	Trp	Ala
				230					235					240
Asp	Ile	Ala	Ser	Lys	Pro	Ala	Lys	Gln	Gln	Pro	Lys	Leu	Lys	Thr
				245					250					255
Lys	Asn	Gly	Ile	Ala	Gly	Ser	Ser	Leu	Pro	Pro	Pro	Pro	Ile	Lys
				260					265					270
His	Asn	Met	Asp	Ile	Gly	Thr	Trp	Asp	Asn	Lys	Gly	Pro	Val	Ala
				275					280					285
Lys	Ala	Pro	Ser	Gln	Ala	Leu	Val	Gln	Asn	Ile	Gly	Gln	Pro	Thr
				290					295					300
Gln	Gly	Ser	Pro	Gln	Pro	Val	Gly	Gln	Gln	Ala	Asn	Asn	Ser	Pro
				305					310					315
Pro	Val	Ala	Gln	Ala	Ser	Val	Gly	Gln	Gln	Thr	Gln	Pro	Leu	Pro
				320					325					330
Pro	Pro	Pro	Pro	Gln	Pro	Ala	Gln	Leu	Ser	Val	Gln	Gln	Gln	Ala
				335					340					345
Ala	Gln	Pro	Thr	Arg	Trp	Val	Ala	Pro	Arg	Asn	Arg	Gly	Ser	Gly
				350					355					360
Phe	Gly	His	Asn	Gly	Val	Asp	Gly	Asn	Gly	Val	Gly	Gln	Ser	Gln
				365					370					375
Ala	Gly	Ser	Gly	Ser	Thr	Pro	Ser	Glu	Pro	His	Pro	Val	Leu	Glu
				380					385					390

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Lys	Leu	Arg	Ser	Ile	Asn	Asn	Tyr	Asn	Pro	Lys	Asp	Phe	Asp	Trp
				395					400					405
Asn	Leu	Lys	His	Gly	Arg	Val	Phe	Ile	Ile	Lys	Ser	Tyr	Ser	Glu
				410					415					420
Asp	Asp	Ile	His	Arg	Ser	Ile	Lys	Tyr	Asn	Ile	Trp	Cys	Ser	Thr
				425					430					435
Glu	His	Gly	Asn	Lys	Arg	Leu	Asp	Ala	Ala	Tyr	Arg	Ser	Met	Asn
				440					445					450
Gly	Lys	Gly	Pro	Val	Tyr	Leu	Leu	Phe	Ser	Val	Asn	Gly	Ser	Gly
				455					460					465
His	Phe	Cys	Gly	Val	Ala	Glu	Met	Lys	Ser	Ala	Val	Asp	Tyr	Asn
				470					475					480
Thr	Cys	Ala	Gly	Val	Trp	Ser	Gln	Asp	Lys	Trp	Lys	Gly	Arg	Phe
				485					490					495
Asp	Val	Arg	Trp	Ile	Phe	Val	Lys	Asp	Val	Pro	Asn	Ser	Gln	Leu
				500					505					510
Arg	His	Ile	Arg	Leu	Glu	Asn	Asn	Glu	Asn	Lys	Pro	Val	Thr	Asn
				515					520					525
Ser	Arg	Asp	Thr	Gln	Glu	Val	Pro	Leu	Glu	Lys	Ala	Lys	Gln	Val
				530					535					540
Leu	Lys	Ile	Ile	Ala	Ser	Tyr	Lys	His	Thr	Thr	Ser	Ile	Phe	Asp
				545					550					555
Asp	Phe	Ser	His	Tyr	Glu	Lys	Arg	Gln	Arg	Gly	Arg	Arg	Lys	Cys
				560					565					570

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<211> 570

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: g5360085

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Asn	Lys	Val	Gln	Asn	Gly	Ser	Val	His	Gln	Lys	Asp	Gly	Leu	Asn
				20					25					30
Asp	Asp	Asp	Phe	Glu	Pro	Tyr	Leu	Ser	Pro	Gln	Ala	Arg	Pro	Asn
				35					40					45
Asn	Ala	Tyr	Thr	Ala	Met	Ser	Asp	Ser	Tyr	Leu	Pro	Ser	Tyr	Tyr
				50					55					60
Ser	Pro	Ser	Ile	Gly	Phe	Ser	Tyr	Ser	Leu	Gly	Glu	Ala	Ala	Trp
				65					70					75
Ser	Thr	Gly	Gly	Asp	Thr	Ala	Met	Pro	Tyr	Leu	Thr	Ser	Tyr	Gly
				80					85					90
Gln	Leu	Ser	Asn	Gly	Glu	Pro	His	Phe	Leu	Pro	Asp	Ala	Met	Phe
				95					100					105
Gly	Gln	Pro	Gly	Ala	Leu	Gly	Ser	Thr	Pro	Phe	Leu	Gly	Gln	His
				110					115					120
Gly	Phe	Asn	Phe	Phe	Pro	Ser	Gly	Ile	Asp	Phe	Ser	Ala	Trp	Gly
				125					130					135
Asn	Asn	Ser	Ser	Gln	Gly	Gln	Ser	Thr	Gln	Ser	Ser	Gly	Tyr	Ser
				140					145					150

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Ser	Asn	Tyr	Ala	Tyr	Ala	Pro	Ser	Ser	Leu	Gly	Gly	Ala	Met	Ile
				155					160					165
Asp	Gly	Gln	Ser	Ala	Phe	Ala	Asn	Glu	Thr	Leu	Asn	Lys	Ala	Pro
				170					175					180
Gly	Met	Asn	Thr	Ile	Asp	Gln	Gly	Met	Ala	Ala	Leu	Lys	Leu	Gly
				185					190					195
Ser	Thr	Glu	Val	Ala	Ser	Asn	Val	Pro	Lys	Val	Val	Gly	Ser	Ala
				200					205					210
Val	Gly	Ser	Gly	Ser	Ile	Thr	Ser	Asn	Ile	Val	Ala	Ser	Asn	Ser
				215					220					225
Leu	Pro	Pro	Ala	Thr	Ile	Ala	Pro	Pro	Lys	Pro	Ala	Ser	Trp	Ala
				230					235					240
Asp	Ile	Ala	Ser	Lys	Pro	Ala	Lys	Gln	Gln	Pro	Lys	Leu	Lys	Thr
				245					250					255
Lys	Asn	Gly	Ile	Ala	Gly	Ser	Ser	Leu	Pro	Pro	Pro	Pro	Ile	Lys
				260					265					270
His	Asn	Met	Asp	Ile	Gly	Thr	Trp	Asp	Asn	Lys	Gly	Pro	Val	Ala
				275					280					285
Lys	Ala	Pro	Ser	Gln	Ala	Leu	Val	Gln	Asn	Ile	Gly	Gln	Pro	Thr
				290					295					300
Gln	Gly	Ser	Pro	Gln	Pro	Val	Gly	Gln	Gln	Ala	Asn	Asn	Ser	Pro
				305					310					315
Pro	Val	Ala	Gln	Ala	Ser	Val	Gly	Gln	Gln	Thr	Gln	Pro	Leu	Pro
				320					325					330
Pro	Pro	Pro	Pro	Gln	Pro	Ala	Gln	Leu	Ser	Val	Gln	Gln	Gln	Ala
				335					340					345
Ala	Gln	Pro	Thr	Arg	Trp	Val	Ala	Pro	Arg	Asn	Arg	Gly	Ser	Gly
				350					355					360
Phe	Gly	His	Asn	Gly	Val	Asp	Gly	Asn	Gly	Val	Gly	Gln	Ser	Gln
				365					370					375
Ala	Gly	Ser	Gly	Ser	Thr	Pro	Ser	Glu	Pro	His	Pro	Val	Leu	Glu
				380					385					390
Lys	Leu	Arg	Ser	Ile	Asn	Asn	Tyr	Asn	Pro	Lys	Asp	Phe	Asp	Trp
				395					400					405
Asn	Leu	Lys	His	Gly	Arg	Val	Phe	Ile	Ile	Lys	Ser	Tyr	Ser	Glu
				410					415					420
Asp	Asp	Ile	His	Arg	Ser	Ile	Lys	Tyr	Asn	Ile	Trp	Cys	Ser	Thr
				425					430					435
Glu	His	Gly	Asn	Lys	Arg	Leu	Asp	Ala	Ala	Tyr	Arg	Ser	Met	Asn
				440					445					450
Gly	Lys	Gly	Pro	Val	Tyr	Leu	Leu	Phe	Ser	Val	Asn	Gly	Ser	Gly
				455					460					465
His	Phe	Cys	Gly	Val	Ala	Glu	Met	Lys	Ser	Ala	Val	Asp	Tyr	Asn
				470					475					480
Thr	Cys	Ala	Gly	Val	Trp	Ser	Gln	Asp	Lys	Trp	Lys	Gly	Arg	Phe
				485					490					495
Asp	Val	Arg	Trp	Ile	Phe	Val	Lys	Asp	Val	Pro	Asn	Ser	Gln	Leu
				500					505					510
Arg	His	Ile	Arg	Leu	Glu	Asn	Asn	Glu	Asn	Lys	Pro	Val	Thr	Asn
				515					520					525
Ser	Arg	Asp	Thr	Gln	Glu	Val	Pro	Leu	Glu	Lys	Ala	Lys	Gln	Val
				530					535					540
Leu	Lys	Ile	Ile	Ala	Ser	Tyr	Lys	His	Thr	Thr	Ser	Ile	Phe	Asp
				545					550					555
Asp	Phe	Ser	His	Tyr	Glu	Lys	Arg	Gln	Arg	Gly	Arg	Arg	Lys	Cys
				560					565					570